

Data Validation Checklist

Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo
 Concurrence²: Nicole Lancaster

Project No: 15268508.20000
 Job ID.: 680-85534-2
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 12/05/2012
 Date: 1/14/2013
 Date: 2/11/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (\leq 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; \leq 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?	✓			MB 660-132425/1-A: Phenanthrene @ 3.96 J µg/Kg (RL 8.0, MDL 3.9)	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 120412-RB-Bowls+Spoons (680-85402-21).	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (120412-RB-Bowls+Spoons) was collected during the week of 12/03/12. The rinsate blank was analyzed for PAHs under Test America Job ID 680-85402-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)	✓			The phenanthrene blank contamination action level (BCAL) is 19.8 µg/Kg (3.96 x 5). Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids. Sample results that were less than the sample-specific BCAL were U-flagged, and the sample detection limit elevated to the amount of phenanthrene found in the sample.	U
14. Is a field duplicate associated with this Job?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were DFTPP ion abundance criteria met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			According to the original Form Vs included in the data package, SW-846 Method 8270C ion abundance criteria were not met; however, a review of raw data indicates that alternate tuning criteria were used by the laboratory (i.e., EPA Method 525). Ion abundance criteria were met per EPA Method 525. Revised Form Vs were provided by the laboratory on 02/11/2013 (refer to Attachment B).	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for 	✓			<ul style="list-style-type: none"> • Instrument ID: BSMA5973 • Initial Calibration: 11/26/2012 • ICV: 11/26/12 @ 15:35 • CCV: 12/13/12 @ 11:21 • CCV: 12/14/12 @ 12:13 • Instrument ID: BSMC5973 • Initial Calibration: 11/29/2012 • ICV: 11/29/12 @ 13:25 	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
every 12 hours of sample analysis per instrument.				<ul style="list-style-type: none"> • CCV: 12/18/12 @ 11:34 • Instrument ID: BSMD5973 • Initial Calibration: 12/06/2012 • ICV: 12/06/12 @ 14:37 • CCV: 12/16/12 @ 09:42 • CCV: 12/19/12 @ 10:48 	
19. Were calibration results within laboratory/project specifications?	✓				
<ul style="list-style-type: none"> • ICAL (Criteria: ≤ 15 mean %RSD with no individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ◦ If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects ◦ If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ◦ If %D > 20 ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects ◦ If RF < 0.050 (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R > Upper Control Limit (UCL) and J/R-flag results when %R < Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> Prep Batch 132458: 680-85534-5 (HP0012B-CS) MS/MSD Prep Batch 132474: 680-85534-18 (FM0165A-CS) MS/MSD Prep Batch 132425: 680-85534-53 (HP0067A-CS), MS/MSD. Lab sample 680-85534-53 is a project-specific sample (HP0067A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-85534-3. 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. If either MS or MSD recovery meets control limits, qualification of data is not warranted. MS and MSD %R<10: J and R Flag positive and ND results, respectively MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results MS and MSD R% >UCL (or 140): J-Flag positive results 		✓		<p>HP0012B-CS (680-85534-5):</p> <ul style="list-style-type: none"> Benzo[a]pyrene @ 67 and 41%R (49-130). Qualification of data is not warranted, because the MS met laboratory control limits. Phenanthrene @71 and 37%R (42-130). Qualification of data is not warranted, because the MS met laboratory control limits. Pyrene @70 and 40%R (44-130). Qualification of data is not warranted, because the MS met laboratory control limits. <p>FM0165A-CS (680-85534-18): Benzo[a]pyrene @ 42 and 47%R (49-130). J-flag, because a low recovery is indicative of low bias.</p>	J
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. If %RPD > UCL, J-flag positive result and UJ-flag non-detect result 		✓		<p>HP0012B-CS (680-85534-5):</p> <ul style="list-style-type: none"> Benzo(a)anthracene @ 41%RPD (\leq40). J-flag Benzo(g,h,i)perylene @ 43%RPD (\leq40). J-flag Benzo(k)fluoranthene @ 47%RPD (\leq40). J-flag Chrysene @ 43%RPD (\leq40). J-flag Dibenz(a,h)anthracene @ 42%RPD (\leq40). J-flag Fluoranthene @ 42%RPD (\leq40). J-flag Indeno(1,2,3-cd)pyrene @ 43%RPD (\leq40). J-flag Phenanthrene @44%RPD (\leq40). J-flag Pyrene @42%RPD (\leq40). J-flag 	J
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R \geq10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R \geq10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 					
<p>28. Were internal standard (IS) results within lab/project specifications?</p> <ul style="list-style-type: none"> • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 	✓				
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

Data Validation Checklist (Continued)

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-85534-5	HP0012B-CS	Solid	12/05/12 11:45	12/07/12 09:24
680-85534-13	FM0025A-CS-SP	Solid	12/05/12 09:30	12/07/12 09:24
680-85534-14	FM0025B-CS	Solid	12/05/12 09:41	12/07/12 09:24
680-85534-15	FM0025C-CS-SP	Solid	12/05/12 09:42	12/07/12 09:24
680-85534-16	FM0025D-CS-SP	Solid	12/05/12 09:49	12/07/12 09:24
680-85534-17	FM0025E-CS	Solid	12/05/12 09:50	12/07/12 09:24
680-85534-18	FM0165A-CS	Solid	12/05/12 08:58	12/07/12 09:24
680-85534-19	FM0165B-CS	Solid	12/05/12 09:02	12/07/12 09:24
680-85534-20	FM0165C-CS	Solid	12/05/12 09:09	12/07/12 09:24
680-85534-21	FM0165D-CS	Solid	12/05/12 09:14	12/07/12 09:24
680-85534-22	FM0165E-CS	Solid	12/05/12 09:20	12/07/12 09:24
680-85534-23	FM0165F-CS	Solid	12/05/12 09:28	12/07/12 09:24
680-85534-24	FM0165G-CS	Solid	12/05/12 10:10	12/07/12 09:24
680-85534-25	FM0165H-CS	Solid	12/05/12 10:05	12/07/12 09:24
680-85534-26	FM0165I-CS	Solid	12/05/12 10:29	12/07/12 09:24
680-85534-27	FM0165J-CS	Solid	12/05/12 10:34	12/07/12 09:24
680-85534-28	FM0165K-CS	Solid	12/05/12 10:39	12/07/12 09:24
680-85534-29	FM0165L-CS	Solid	12/05/12 10:48	12/07/12 09:24
680-85534-30	FM0165M-CS	Solid	12/05/12 10:54	12/07/12 09:24
680-85534-31	FM0165N-CS	Solid	12/05/12 10:56	12/07/12 09:24

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ATTACHMENT B

DATA PACKAGE ADDENDUM

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2
SDG No.: 68085534-1
Lab File ID: 1AK26002.D DFTPP Injection Date: 11/26/2012
Instrument ID: BSMA5973 DFTPP Injection Time: 13:33
Analysis Batch No.: 131833

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	22.5
68	Less than 2.0 % of mass 69	0.5 (1.4)1
69	Mass 69 relative abundance	33.2
70	Less than 2.0 % of mass 69	0.6 (1.8)1
127	10.0 - 80.0 % of mass 442	33.6
197	Less than 2.0 % of mass 198	1.3 (1.7)2
198	Greater than 50.0 % of mass 442	76.0
199	5.0 - 9.0 % of mass 198	5.5 (7.3)2
275	10.0 - 60.0 % of mass 442	24.3
365	Greater than 1.0 % of mass 442	3.7
441	Present but less than mass 443	12.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	18.0

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-131833/3	1AK26003.D	11/26/2012	13:48
	IC 660-131833/4	1AK26004.D	11/26/2012	14:04
	IC 660-131833/5	1AK26005.D	11/26/2012	14:19
	IC 660-131833/6	1AK26006.D	11/26/2012	14:34
	ICIS 660-131833/7	1AK26007.D	11/26/2012	14:50
	IC 660-131833/8	1AK26008.D	11/26/2012	15:05
	IC 660-131833/9	1AK26009.D	11/26/2012	15:20
	ICV 660-131833/10	1AK26010.D	11/26/2012	15:35

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1AL13002.D DFTPP Injection Date: 12/13/2012

Instrument ID: BSMA5973 DFTPP Injection Time: 11:07

Analysis Batch No.: 132552

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	20.5
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	31.4
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	31.7
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.9
275	10.0 - 60.0 % of mass 198	31.3
365	Greater than 1.0 % of mass 198	4.3
441	Present but less than mass 443	25.8
442	Greater than 50.0 % of mass 198	150.8
443	15.0 - 24.0 % of mass 442	33.8 (22.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132552/3	1AL13003.D	12/13/2012	11:21
	MB 660-132425/1-A	1AL13005.D	12/13/2012	11:58
	LCS 660-132425/2-A	1AL13006.D	12/13/2012	12:13
FM0025A-CS-SP	680-85534-13	1AL13016.D	12/13/2012	14:45

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2
SDG No.: 68085534-1
Lab File ID: 1AL14002.D DFTPP Injection Date: 12/14/2012
Instrument ID: BSMA5973 DFTPP Injection Time: 11:58
Analysis Batch No.: 132527

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	24.7
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	41.9
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	25.1
197	Less than 2.0 % of mass 198	1.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.6
275	10.0 - 60.0 % of mass 198	31.9
365	Greater than 1.0 % of mass 198	5.0
441	Present but less than mass 443	34.5
442	Greater than 50.0 % of mass 198	152.8
443	15.0 - 24.0 % of mass 442	35.1 (23.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132527/3	1AL14003.D	12/14/2012	12:13
	MB 660-132474/1-A	1AL14005.D	12/14/2012	12:45
	LCS 660-132474/2-A	1AL14006.D	12/14/2012	13:00
FM0165A-CS	680-85534-18	1AL14010.D	12/14/2012	14:01
FM0165A-CS MS	680-85534-18 MS	1AL14011.D	12/14/2012	14:16
FM0165A-CS MSD	680-85534-18 MSD	1AL14012.D	12/14/2012	14:31

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2
SDG No.: 68085534-1
Lab File ID: 1CK29002.D DFTPP Injection Date: 11/29/2012
Instrument ID: BSMC5973 DFTPP Injection Time: 10:59
Analysis Batch No.: 131957

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	27.7
68	Less than 2.0 % of mass 69	0.3 (0.7)1
69	Mass 69 relative abundance	37.9
70	Less than 2.0 % of mass 69	0.2 (0.6)1
127	10.0 - 80.0 % of mass 198	44.0
197	Less than 2.0 % of mass 198	1.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.8
275	10.0 - 60.0 % of mass 198	23.2
365	Greater than 1.0 % of mass 198	3.6
441	Present but less than mass 443	11.7
442	Greater than 50.0 % of mass 198	81.2
443	15.0 - 24.0 % of mass 442	16.8 (20.7)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-131957/3	1CK29003.D	11/29/2012	11:16
	IC 660-131957/4	1CK29004.D	11/29/2012	11:34
	IC 660-131957/5	1CK29005.D	11/29/2012	11:53
	IC 660-131957/6	1CK29006.D	11/29/2012	12:11
	ICIS 660-131957/7	1CK29007.D	11/29/2012	12:29
	IC 660-131957/8	1CK29008.D	11/29/2012	12:48
	IC 660-131957/9	1CK29009.D	11/29/2012	13:06
	ICV 660-131957/10	1CK29010.D	11/29/2012	13:25

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1CL18002.D DFTPP Injection Date: 12/18/2012

Instrument ID: BSMC5973 DFTPP Injection Time: 11:17

Analysis Batch No.: 132652

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	27.6
68	Less than 2.0 % of mass 69	0.6 (1.8)1
69	Mass 69 relative abundance	34.4
70	Less than 2.0 % of mass 69	0.3 (0.9)1
127	10.0 - 80.0 % of mass 442	37.0
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	91.6
199	5.0 - 9.0 % of mass 198	6.5 (7.1)2
275	10.0 - 60.0 % of mass 442	20.7
365	Greater than 1.0 % of mass 442	2.7
441	Present but less than mass 443	14.7
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.8

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132652/3	1CL18003.D	12/18/2012	11:34
FM0165F-CS DL	680-85534-23 DL	1CL18020.D	12/18/2012	16:59
FM0165F-CS DL2	680-85534-23 DL2	1CL18033.D	12/18/2012	20:58

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2
SDG No.: 68085534-1
Lab File ID: 1DL06002.D DFTPP Injection Date: 12/06/2012
Instrument ID: BSMD5973 DFTPP Injection Time: 11:28
Analysis Batch No.: 132234

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	43.1
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	46.3
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	53.7
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.6
275	10.0 - 60.0 % of mass 198	26.7
365	Greater than 1.0 % of mass 198	2.8
441	Present but less than mass 443	9.2
442	Greater than 50.0 % of mass 198	63.5
443	15.0 - 24.0 % of mass 442	12.5 (19.7)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-132234/3	1DL06003.D	12/06/2012	11:59
	IC 660-132234/4	1DL06004.D	12/06/2012	12:21
	IC 660-132234/5	1DL06005.D	12/06/2012	12:44
	IC 660-132234/6	1DL06006.D	12/06/2012	13:07
	ICIS 660-132234/7	1DL06007.D	12/06/2012	13:29
	IC 660-132234/8	1DL06008.D	12/06/2012	13:52
	IC 660-132234/9	1DL06009.D	12/06/2012	14:14
	ICV 660-132234/10	1DL06010.D	12/06/2012	14:37

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa

Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1DL16002.D

DFTPP Injection Date: 12/16/2012

Instrument ID: BSMD5973

DFTPP Injection Time: 09:07

Analysis Batch No.: 132553

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	32.1
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	34.1
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	41.7
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	99.7
199	5.0 - 9.0 % of mass 198	6.8 (6.8)2
275	10.0 - 60.0 % of mass 442	31.5
365	Greater than 1.0 % of mass 442	3.8
441	Present but less than mass 443	15.2
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.8

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132553/3	1DL16003.D	12/16/2012	09:42
	MB 660-132458/1-A	1DL16006.D	12/16/2012	10:59
	LCS 660-132458/2-A	1DL16007.D	12/16/2012	11:22
HP0012B-CS	680-85534-5	1DL16009.D	12/16/2012	12:07
HP0012B-CS MS	680-85534-5 MS	1DL16010.D	12/16/2012	12:29
HP0012B-CS MSD	680-85534-5 MSD	1DL16011.D	12/16/2012	12:52
FM0025B-CS	680-85534-14	1DL16012.D	12/16/2012	13:15
FM0025C-CS-SP	680-85534-15	1DL16013.D	12/16/2012	13:38
FM0025D-CS-SP	680-85534-16	1DL16017.D	12/16/2012	15:56
FM0025E-CS	680-85534-17	1DL16018.D	12/16/2012	16:19
FM0165B-CS	680-85534-19	1DL16019.D	12/16/2012	16:42
FM0165C-CS	680-85534-20	1DL16020.D	12/16/2012	17:05
FM0165D-CS	680-85534-21	1DL16021.D	12/16/2012	17:27
FM0165E-CS	680-85534-22	1DL16022.D	12/16/2012	17:50
FM0165F-CS	680-85534-23	1DL16023.D	12/16/2012	18:13
FM0165G-CS	680-85534-24	1DL16024.D	12/16/2012	18:35
FM0165H-CS	680-85534-25	1DL16025.D	12/16/2012	18:58
FM0165I-CS	680-85534-26	1DL16026.D	12/16/2012	19:21
FM0165J-CS	680-85534-27	1DL16027.D	12/16/2012	19:44
FM0165K-CS	680-85534-28	1DL16028.D	12/16/2012	20:06
FM0165L-CS	680-85534-29	1DL16029.D	12/16/2012	20:29
FM0165M-CS	680-85534-30	1DL16030.D	12/16/2012	20:51

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1DL19002.D DFTPP Injection Date: 12/19/2012

Instrument ID: BSMD5973 DFTPP Injection Time: 10:29

Analysis Batch No.: 132707

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	29.1
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	31.2
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	39.9
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	93.6
199	5.0 - 9.0 % of mass 198	6.2 (6.6)2
275	10.0 - 60.0 % of mass 442	27.0
365	Greater than 1.0 % of mass 442	4.2
441	Present but less than mass 443	15.5
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	18.8

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132707/2	1DL19003.D	12/19/2012	10:48
FM0165N-CS	680-85534-31	1DL19005.D	12/19/2012	11:51

ATTACHMENT C

CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
SDG: 68085534-1

Job ID: 680-85534-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-85534-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/07/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.3° C, 0.4° C and 0.6° C.

SEMICVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0012B-CS (680-85534-5), FM0025A-CS-SP (680-85534-13), FM0025B-CS (680-85534-14), FM0025C-CS-SP (680-85534-15), FM0025D-CS-SP (680-85534-16), FM0025E-CS (680-85534-17), FM0165A-CS (680-85534-18), FM0165B-CS (680-85534-19), FM0165C-CS (680-85534-20), FM0165D-CS (680-85534-21), FM0165E-CS (680-85534-22), FM0165F-CS (680-85534-23), FM0165G-CS (680-85534-24), FM0165H-CS (680-85534-25), FM0165I-CS (680-85534-26), FM0165J-CS (680-85534-27), FM0165K-CS (680-85534-28), FM0165L-CS (680-85534-29), FM0165M-CS (680-85534-30) and FM0165N-CS (680-85534-31) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/12/2012 and 12/13/2012 and analyzed on 12/13/2012, 12/14/2012, 12/16/2012, 12/18/2012 and 12/19/2012.

Samples FM0165F-CS (680-85534-23)[10X] and FM0165F-CS (680-85534-23)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-132425/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Benzo[a]pyrene, Phenanthrene and Pyrene recovered outside the recovery criteria low for the MSD of sample HP0012B-CSMSD (680-85534-5) in batch 660-132553. Several analytes exceeded the rpd limit.

Benzo[a]pyrene recovered outside the recovery criteria low for the MS/MSD of sample FM0165A-CSMS (680-85534-18) in batch 660-132527.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: HP0012B-CS

Date Collected: 12/05/12 11:45
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-5
 Matrix: Solid
 Percent Solids: 82.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Acenaphthylene	26	J	49	6.1	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Anthracene	33		10	5.1	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Benzo[a]anthracene	100	J	9.8	4.8	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Benzo[a]pyrene	96	J	13	6.3	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Benzo[b]fluoranthene	180		15	7.4	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Benzo[g,h,i]perylene	83	J	24	5.4	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Benzo[k]fluoranthene	62	J	9.8	4.4	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Chrysene	160	J	11	5.5	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Dibenz(a,h)anthracene	27	J	24	5.0	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Fluoranthene	180	J	24	4.9	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Fluorene	24	U	24	5.0	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Indeno[1,2,3-cd]pyrene	74	J	24	8.7	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
1-Methylnaphthalene	97		49	5.4	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
2-Methylnaphthalene	120		49	8.7	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Naphthalene	130		49	5.4	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Phenanthrene	190	J	9.8	4.8	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Pyrene	130	J	24	4.5	ug/Kg	☀	12/13/12 13:19	12/16/12 12:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	56		30 - 130				12/13/12 13:19	12/16/12 12:07	1

Client Sample ID: FM0025A-CS-SP

Date Collected: 12/05/12 09:30
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-13
 Matrix: Solid
 Percent Solids: 78.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Acenaphthylene	12	J	51	6.3	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Anthracene	15		11	5.3	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Benzo[a]anthracene	61		10	4.9	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Benzo[a]pyrene	56		13	6.6	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Benzo[b]fluoranthene	110		15	7.7	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Benzo[g,h,i]perylene	73		25	5.6	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Benzo[k]fluoranthene	35		10	4.6	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Chrysene	95		11	5.7	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Dibenz(a,h)anthracene	23	J	25	5.2	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Fluoranthene	110		25	5.1	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Fluorene	7.1	J	25	5.2	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Indeno[1,2,3-cd]pyrene	51		25	9.0	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
1-Methylnaphthalene	47	J	51	5.6	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
2-Methylnaphthalene	53		51	9.0	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Naphthalene	58		51	5.6	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Phenanthrene	97	J	10	4.9	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Pyrene	130		25	4.7	ug/Kg	☀	12/12/12 16:13	12/13/12 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		30 - 130				12/12/12 16:13	12/13/12 14:45	1

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Sample results have been qualified by URIS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: FM0025B-CS

Date Collected: 12/05/12 09:41
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-14

Matrix: Solid
 Percent Solids: 83.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Acenaphthylene	9.3	J	48	6.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Anthracene	14		10	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Benzo[a]anthracene	61		9.6	4.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Benzo[a]pyrene	60		12	6.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Benzo[b]fluoranthene	110		15	7.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Benzo[g,h,i]perylene	45		24	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Benzo[k]fluoranthene	39		9.6	4.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Chrysene	88		11	5.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Dibenz(a,h)anthracene	16	J	24	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Fluoranthene	100		24	4.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Fluorene	5.6	J	24	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Indeno[1,2,3-cd]pyrene	44		24	8.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
1-Methylnaphthalene	23	J	48	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
2-Methylnaphthalene	30	J	48	8.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Naphthalene	36	J	48	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Phenanthrene	70		9.6	4.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Pyrene	81		24	4.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:15	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		70			30 - 130		12/13/12 13:19	12/16/12 13:15	1

Client Sample ID: FM0025C-CS-SP

Date Collected: 12/05/12 09:42
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-15

Matrix: Solid
 Percent Solids: 80.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Acenaphthylene	50	U	50	6.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Anthracene	12		10	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Benzo[a]anthracene	39		10	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Benzo[a]pyrene	34		13	6.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Benzo[b]fluoranthene	67		15	7.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Benzo[g,h,i]perylene	25		25	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Benzo[k]fluoranthene	19		10	4.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Chrysene	57		11	5.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Dibenz(a,h)anthracene	10	J	25	5.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Fluoranthene	60		25	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Fluorene	25	U	25	5.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Indeno[1,2,3-cd]pyrene	24	J	25	8.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
1-Methylnaphthalene	25	J	50	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
2-Methylnaphthalene	35	J	50	8.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Naphthalene	63		50	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Phenanthrene	58		10	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Pyrene	45		25	4.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 13:38	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		58			30 - 130		12/13/12 13:19	12/16/12 13:38	1

TestAmerica Savannah

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: FM0025D-CS-SP

Date Collected: 12/05/12 09:49
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-16

Matrix: Solid
 Percent Solids: 74.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Acenaphthylene	53	U	53	6.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Anthracene	11	U	11	5.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Benzo[a]anthracene	10	J	11	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Benzo[a]pyrene	8.5	J	14	6.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Benzo[b]fluoranthene	13	J	16	8.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Benzo[g,h,i]perylene	27	U	27	5.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Benzo[k]fluoranthene	11	U	11	4.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Chrysene	20		12	6.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Dibenz(a,h)anthracene	27	U	27	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Fluoranthene	23	J	27	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Fluorene	27	U	27	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Indeno[1,2,3-cd]pyrene	27	U	27	9.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
1-Methylnaphthalene	6.3	J	53	5.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
2-Methylnaphthalene	53	U	53	9.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Naphthalene	19	J	53	5.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Phenanthrene	26	U	11	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Pyrene	14	J	27	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 15:56	1
Surrogate									
<i>o-Terphenyl</i>	<i>51</i>								
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
			30 - 130				12/13/12 13:19	12/16/12 15:56	1

Client Sample ID: FM0025E-CS

Date Collected: 12/05/12 09:50
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-17

Matrix: Solid
 Percent Solids: 62.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Acenaphthylene	64	U	64	8.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Anthracene	10	J	13	6.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Benzo[a]anthracene	13		13	6.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Benzo[a]pyrene	17	U	17	8.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Benzo[b]fluoranthene	10	J	20	9.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Benzo[g,h,i]perylene	8.3	J	32	7.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Benzo[k]fluoranthene	13	U	13	5.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Chrysene	27		14	7.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Dibenz(a,h)anthracene	32	U	32	6.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Fluoranthene	52		32	6.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Fluorene	7.3	J	32	6.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Indeno[1,2,3-cd]pyrene	32	U	32	11	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
1-Methylnaphthalene	18	J	64	7.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
2-Methylnaphthalene	27	J	64	11	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Naphthalene	260		64	7.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Phenanthrene	78		13	6.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Pyrene	41		32	5.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:19	1
Surrogate									
<i>o-Terphenyl</i>	<i>41</i>								
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
			30 - 130				12/13/12 13:19	12/16/12 16:19	1

1 Sample results have been qualified in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: FM0165A-CS

Date Collected: 12/05/12 08:58
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-18

Matrix: Solid
 Percent Solids: 85.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Acenaphthylene	47	U	47	5.8	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Anthracene	9.8	U	9.8	4.9	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Benzo[a]anthracene	13		9.3	4.6	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Benzo[a]pyrene	12	U UJ	12	6.1	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Benzo[b]fluoranthene	8.7 J		14	7.1	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Benzo[g,h,i]perylene	23	U	23	5.1	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Benzo[k]fluoranthene	5.4 J		9.3	4.2	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Chrysene	7.7 J		11	5.3	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Dibenz(a,h)anthracene	23	U	23	4.8	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Fluoranthene	13 J		23	4.7	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Fluorene	23	U	23	4.8	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Indeno[1,2,3-cd]pyrene	23	U	23	8.3	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
1-Methylnaphthalene	47	U	47	5.1	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
2-Methylnaphthalene	47	U	47	8.3	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Naphthalene	47	U	47	5.1	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Phenanthrene	11 U	0.3 4.6	4.6	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1	
Pyrene	10 J		23	4.3	ug/Kg	⊗	12/13/12 17:33	12/14/12 14:01	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		60		30 - 130			12/13/12 17:33	12/14/12 14:01	1

Client Sample ID: FM0165B-CS

Date Collected: 12/05/12 09:02
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-19

Matrix: Solid
 Percent Solids: 83.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Acenaphthylene	48	U	48	6.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Anthracene	10	U	10	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Benzo[a]anthracene	13		9.6	4.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Benzo[a]pyrene	12	U	12	6.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Benzo[b]fluoranthene	8.1 J		15	7.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Benzo[g,h,i]perylene	24	U	24	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Benzo[k]fluoranthene	9.6	U	9.6	4.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Chrysene	7.6 J		11	5.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Dibenz(a,h)anthracene	24	U	24	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Fluoranthene	10 J		24	4.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Fluorene	24	U	24	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Indeno[1,2,3-cd]pyrene	24	U	24	8.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
1-Methylnaphthalene	48	U	48	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
2-Methylnaphthalene	48	U	48	8.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Naphthalene	48	U	48	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Phenanthrene	6.8 U	4.7	9.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1	
Pyrene	6.7 J		24	4.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 16:42	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		60		30 - 130			12/13/12 13:19	12/16/12 16:42	1

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: FM0165C-CS

Date Collected: 12/05/12 09:09
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-20

Matrix: Solid
 Percent Solids: 81.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Acenaphthylene	49	U	49	6.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Anthracene	10	U	10	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Benzo[a]anthracene	20		9.8	4.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Benzo[a]pyrene	9.2 J		13	6.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Benzo[b]fluoranthene	16		15	7.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Benzo[g,h,i]perylene	25	U	25	5.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Benzo[k]fluoranthene	6.3 J		9.8	4.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Chrysene	12		11	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Dibenz(a,h)anthracene	25	U	25	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Fluoranthene	22 J		25	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Fluorene	25	U	25	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Indeno[1,2,3-cd]pyrene	25	U	25	8.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
1-Methylnaphthalene	49	U	49	5.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
2-Methylnaphthalene	49	U	49	8.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Naphthalene	49	U	49	5.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Phenanthrene	16 U		9.8	4.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Pyrene	17 J		25	4.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:05	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	59		30 - 130				12/13/12 13:19	12/16/12 17:05	1

Client Sample ID: FM0165D-CS

Date Collected: 12/05/12 09:14
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-21

Matrix: Solid
 Percent Solids: 83.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Acenaphthylene	48	U	48	6.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Anthracene	7.8 J		10	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Benzo[a]anthracene	26		9.6	4.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Benzo[a]pyrene	17		12	6.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Benzo[b]fluoranthene	24		15	7.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Benzo[g,h,i]perylene	6.6	J	24	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Benzo[k]fluoranthene	10		9.6	4.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Chrysene	24		11	5.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Dibenz(a,h)anthracene	24	U	24	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Fluoranthene	44		24	4.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Fluorene	24	U	24	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Indeno[1,2,3-cd]pyrene	24	U	24	8.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
1-Methylnaphthalene	48	U	48	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
2-Methylnaphthalene	48	U	48	8.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Naphthalene	48	U	48	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Phenanthrene	31		9.6	4.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Pyrene	32		24	4.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:27	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	70		30 - 130				12/13/12 13:19	12/16/12 17:27	1

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: FM0165E-CS

Date Collected: 12/05/12 09:20
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-22

Matrix: Solid
 Percent Solids: 79.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Acenaphthylene	50	U	50	6.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Anthracene	11	U	11	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Benzo[a]anthracene	21		10	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Benzo[a]pyrene	13		13	6.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Benzo[b]fluoranthene	21		15	7.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Benzo[g,h,i]perylene	7.0	J	25	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Benzo[k]fluoranthene	6.9	J	10	4.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Chrysene	18		11	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Dibenz(a,h)anthracene	5.8	J	25	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Fluoranthene	31		25	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Fluorene	25	U	25	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Indeno[1,2,3-cd]pyrene	25	U	25	8.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
1-Methylnaphthalene	50	U	50	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
2-Methylnaphthalene	50	U	50	8.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Naphthalene	50	U	50	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Phenanthrene	22	U	10	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Pyrene	23	J	25	4.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 17:50	1
Surrogate		%Recovery			Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		58			30 - 130		12/13/12 13:19	12/16/12 17:50	1

Client Sample ID: FM0165F-CS

Date Collected: 12/05/12 09:28
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-23

Matrix: Solid
 Percent Solids: 75.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2400		130	26	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:13	1
Acenaphthylene	220		53	6.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:13	1
Dibenz(a,h)anthracene	3200		26	5.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:13	1
Fluorene	2100		26	5.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:13	1
1-Methylnaphthalene	1100		53	5.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:13	1
2-Methylnaphthalene	1300		53	9.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:13	1
Naphthalene	730		53	5.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:13	1
Surrogate		%Recovery			Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		64			30 - 130		12/13/12 13:19	12/16/12 18:13	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	13000		110	55	ug/Kg	⊗	12/13/12 13:19	12/18/12 16:59	10
Benzo[a]anthracene	30000		110	51	ug/Kg	⊗	12/13/12 13:19	12/18/12 16:59	10
Benzo[a]pyrene	23000		140	68	ug/Kg	⊗	12/13/12 13:19	12/18/12 16:59	10
Benzo[b]fluoranthene	37000		160	80	ug/Kg	⊗	12/13/12 13:19	12/18/12 16:59	10
Benzo[g,h,i]perylene	12000		260	58	ug/Kg	⊗	12/13/12 13:19	12/18/12 16:59	10
Benzo[k]fluoranthene	16000		110	47	ug/Kg	⊗	12/13/12 13:19	12/18/12 16:59	10
Chrysene	37000		120	59	ug/Kg	⊗	12/13/12 13:19	12/18/12 16:59	10
Indeno[1,2,3-cd]pyrene	11000		260	93	ug/Kg	⊗	12/13/12 13:19	12/18/12 16:59	10

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 35th Avenue Removal Site, Birmingham, Alabama, USA
 Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, USA

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: FM0165F-CS

Date Collected: 12/05/12 09:28
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-23

Matrix: Solid
 Percent Solids: 75.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	79000		530	110	ug/Kg	⊗	12/13/12 13:19	12/18/12 20:58	20
Phenanthrene	71000		210	100	ug/Kg	⊗	12/13/12 13:19	12/18/12 20:58	20
Pyrene	72000		530	97	ug/Kg	⊗	12/13/12 13:19	12/18/12 20:58	20

Client Sample ID: FM0165G-CS

Date Collected: 12/05/12 10:10
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-24

Matrix: Solid
 Percent Solids: 76.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Acenaphthylene	8.8	J	52	6.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Anthracene	52		11	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Benzo[a]anthracene	280		10	5.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Benzo[a]pyrene	300		14	6.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Benzo[b]fluoranthene	490		16	7.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Benzo[g,h,i]perylene	130		26	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Benzo[k]fluoranthene	180		10	4.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Chrysene	350		12	5.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Dibenz(a,h)anthracene	49		26	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Fluoranthene	570		26	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Fluorene	22	J	26	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Indeno[1,2,3-cd]pyrene	150		26	9.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
1-Methylnaphthalene	36	J	52	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
2-Methylnaphthalene	49	J	52	9.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Naphthalene	68		52	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Phenanthrene	320		10	5.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Pyrene	440		26	4.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:35	1
Surrogate		%Recovery		Qualifier		Limits			
<i>o-Terphenyl</i>		59				30 - 130			
							Prepared	Analyzed	Dil Fac
							12/13/12 13:19	12/16/12 18:35	1

Client Sample ID: FM0165H-CS

Date Collected: 12/05/12 10:05
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-25

Matrix: Solid
 Percent Solids: 79.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Acenaphthylene	7.2	J	50	6.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Anthracene	19		10	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Benzo[a]anthracene	76		10	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Benzo[a]pyrene	64		13	6.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Benzo[b]fluoranthene	130		15	7.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Benzo[g,h,i]perylene	34		25	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Benzo[k]fluoranthene	41		10	4.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Chrysene	120		11	5.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Dibenz(a,h)anthracene	14	J	25	5.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Fluoranthene	150		25	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Fluorene	11	J	25	5.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: FM0165H-CS

Date Collected: 12/05/12 10:05
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-25

Matrix: Solid
 Percent Solids: 79.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	35		25	8.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
1-Methylnaphthalene	55		50	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
2-Methylnaphthalene	82		50	8.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Naphthalene	140		50	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Phenanthrene	150		10	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Pyrene	96		25	4.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 18:58	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	69			30 - 130			12/13/12 13:19	12/16/12 18:58	1

Client Sample ID: FM0165I-CS

Date Collected: 12/05/12 10:29
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-26

Matrix: Solid
 Percent Solids: 76.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Acenaphthylene	8.2	J	52	6.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Anthracene	16		11	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Benzo[a]anthracene	63		10	5.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Benzo[a]pyrene	52		14	6.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Benzo[b]fluoranthene	110		16	7.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Benzo[g,h,i]perylene	29		26	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Benzo[k]fluoranthene	29		10	4.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Chrysene	94		12	5.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Dibenz(a,h)anthracene	14	J	26	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Fluoranthene	130		26	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Fluorene	26	U	26	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Indeno[1,2,3-cd]pyrene	28		26	9.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
1-Methylnaphthalene	61		52	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
2-Methylnaphthalene	88		52	9.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Naphthalene	160		52	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Phenanthrene	140		10	5.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Pyrene	79		26	4.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:21	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	57			30 - 130			12/13/12 13:19	12/16/12 19:21	1

Client Sample ID: FM0165J-CS

Date Collected: 12/05/12 10:34
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-27

Matrix: Solid
 Percent Solids: 78.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Acenaphthylene	51	U	51	6.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Anthracene	18		11	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Benzo[a]anthracene	73		10	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Benzo[a]pyrene	64		13	6.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Benzo[b]fluoranthene	130		15	7.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1

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Sample results have been qualified by URs in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: FM0165J-CS

Date Collected: 12/05/12 10:34
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-27

Matrix: Solid
 Percent Solids: 78.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	34		25	5.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Benzo[k]fluoranthene	40		10	4.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Chrysene	120		11	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Dibenz(a,h)anthracene	15 J		25	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Fluoranthene	160		25	5.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Fluorene	25 U		25	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Indeno[1,2,3-cd]pyrene	34		25	9.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
1-Methylnaphthalene	62		51	5.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
2-Methylnaphthalene	89		51	9.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Naphthalene	150		51	5.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Phenanthrene	170		10	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Pyrene	97		25	4.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 19:44	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	57			30 - 130			12/13/12 13:19	12/16/12 19:44	1

Client Sample ID: FM0165K-CS

Date Collected: 12/05/12 10:39
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-28

Matrix: Solid
 Percent Solids: 79.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Acenaphthylene	6.7 J		50	6.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Anthracene	14		11	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Benzo[a]anthracene	61		10	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Benzo[a]pyrene	48		13	6.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Benzo[b]fluoranthene	100		15	7.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Benzo[g,h,i]perylene	25		25	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Benzo[k]fluoranthene	28		10	4.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Chrysene	88		11	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Dibenz(a,h)anthracene	11 J		25	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Fluoranthene	130		25	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Fluorene	25 U		25	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Indeno[1,2,3-cd]pyrene	26		25	8.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
1-Methylnaphthalene	47 J		50	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
2-Methylnaphthalene	73		50	8.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Naphthalene	140		50	5.5	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Phenanthrene	120		10	4.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Pyrene	78		25	4.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:06	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	56			30 - 130			12/13/12 13:19	12/16/12 20:06	1

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: FM0165L-CS

Date Collected: 12/05/12 10:48
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-29

Matrix: Solid
 Percent Solids: 79.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Acenaphthylene	51	U	51	6.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Anthracene	16		11	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Benzo[a]anthracene	66		10	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Benzo[a]pyrene	51		13	6.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Benzo[b]fluoranthene	110		15	7.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Benzo[g,h,i]perylene	31		25	5.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Benzo[k]fluoranthene	35		10	4.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Chrysene	99		11	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Dibenz(a,h)anthracene	14	J	25	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Fluoranthene	140		25	5.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Fluorene	25	U	25	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Indeno[1,2,3-cd]pyrene	30		25	9.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
1-Methylnaphthalene	68		51	5.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
2-Methylnaphthalene	100		51	9.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Naphthalene	190		51	5.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Phenanthrene	160		10	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Pyrene	83		25	4.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:29	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		68		30 - 130			12/13/12 13:19	12/16/12 20:29	1

Client Sample ID: FM0165M-CS

Date Collected: 12/05/12 10:54
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-30

Matrix: Solid
 Percent Solids: 77.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Acenaphthylene	52	U	52	6.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Anthracene	11		11	5.4	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Benzo[a]anthracene	47		10	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Benzo[a]pyrene	40		13	6.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Benzo[b]fluoranthene	78		16	7.9	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Benzo[g,h,i]perylene	26		26	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Benzo[k]fluoranthene	29		10	4.6	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Chrysene	63		12	5.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Dibenz(a,h)anthracene	9.5	J	26	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Fluoranthene	82		26	5.2	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Fluorene	26	U	26	5.3	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Indeno[1,2,3-cd]pyrene	23	J	26	9.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
1-Methylnaphthalene	27	J	52	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
2-Methylnaphthalene	40	J	52	9.1	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Naphthalene	64		52	5.7	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Phenanthrene	71		10	5.0	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Pyrene	54		26	4.8	ug/Kg	⊗	12/13/12 13:19	12/16/12 20:51	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		61		30 - 130			12/13/12 13:19	12/16/12 20:51	1

Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama.

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-2
 SDG: 68085534-1

Client Sample ID: FM0165N-CS

Date Collected: 12/05/12 10:56
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-31

Matrix: Solid
 Percent Solids: 70.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Acenaphthylene	12	J	56	7.1	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Anthracene	23		12	5.9	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Benzo[a]anthracene	94		11	5.5	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Benzo[a]pyrene	81		15	7.3	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Benzo[b]fluoranthene	150		17	8.6	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Benzo[g,h,i]perylene	81		28	6.2	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Benzo[k]fluoranthene	46		11	5.1	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Chrysene	160		13	6.3	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Dibenz(a,h)anthracene	27	J	28	5.8	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Fluoranthene	160		28	5.6	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Fluorene	28	U	28	5.8	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Indeno[1,2,3-cd]pyrene	65		28	10	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
1-Methylnaphthalene	110		56	6.2	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
2-Methylnaphthalene	140		56	10	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Naphthalene	210		56	6.2	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Phenanthrene	200		11	5.5	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Pyrene	110		28	5.2	ug/Kg	⊗	12/13/12 13:19	12/19/12 11:51	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		50			30 - 130		12/13/12 13:19	12/19/12 11:51	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)